Name of Work :Improvements to roads & drains Jodidara Narasimaiah Layout (Gowdike hola) in Bagalagunte Ward No 14.

D[illegible]ARAHALLI DIVISION	**T DASARAHALLI SUB DIVISION**
Estimate Cost:-20.00 Lakhs,	**JOB CODE: 014-20-000012**

Head of Account:- P-1771

Indent No. 34725

Agency:-Sri M/S NANDINI ENTERPRISES,#1504, 4TH C MAIN, 2ND STAGE MAHALAXMIPURAM, BANGALORE.

Agreement No:- : EE/DD/AGR/412/2019-20 Date-01-10-2019

DETAILED MEASUREMENTS

Recorded on:- 11/03/20

Pre measurements

BOQ Item No	Description Of item of work	Nos	Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4	6	7	8	9	10	11
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3							
	JODIDAR NARASIMAIAH 1ST MAIN ROAD							
	ROAD	1	2.00	4.40 + 4.40 / 2	0.20	1.760		
		1	30.00	4.40 + 4.00 / 2	0.20	25.200		
		1	30.00	4.00 + 4.70 / 2	0.20	26.100		
		1	35.60	4.70 + 4.10 / 2	0.20	31.328		
	CC DRAIN							
	R/S	1	30.00	0.90	0.85	22.950		
		1	30.00	0.90	0.85	22.950		
		1	35.60	0.90	0.85	27.234		
	L/S	1	30.00	0.90	0.85	22.950		
		1	30.00	0.90	0.85	22.950		
		1	35.60	0.90	0.85	27.234		
			Total Qty			230.656	230.656	Cum

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BOQ Item No	Description Of item of work	Nos	Measurements				Sub Qty	Total Qty	Unit
			Length	Breath		Depth			
	3	4	6	7		8	9	10	11
measurement continued on:- 12/03/20									
8	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading								
	JODIDAR NARASIMAIAH 1ST MAIN ROAD								
	ROAD	1	2.00	4.40 + 4.40 / 2			0.20	1.760	
		1	30.00	4.40 + 4.00 / 2			0.20	25.200	
		1	30.00	4.00 + 4.70 / 2			0.20	26.100	
		1	35.60	4.70 + 4.10 / 2			0.20	31.328	
	CC DRAIN								
	R/S	1	30.00	0.90			0.85	22.950	
		1	30.00	0.90			0.85	22.950	
		1	35.60	0.90			0.85	27.234	
	L/S	1	30.00	0.90			0.85	22.950	
		1	30.00	0.90			0.85	22.950	
		1	35.60	0.90			0.85	27.234	
	Total Qty							230.656	
	LIMITING TENDER QTY UPTO 125%(175*1.25%=218.75)							218.750	218.750 Cum

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BOQ Item No	Description Of item of work	Nos	Measurements			Sub Qty	Total Qty	Unit
			Length	Breath	Depth			
	3	4	6	7	8	9	10	11
measurement continued on:-	18/3/20							
2	Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work							
	JODIDAR NARASIMAIAH 1ST MAIN ROAD							
	ROAD	1	2.00	4.40 + 4.40 / 2		0.225	1.980	
		1	30.00	4.40 + 4.00 / 2		0.225	28.350	
		1	30.00	4.00 + 4.70 / 2		0.225	29.363	
		1	35.60	4.70 + 4.10 / 2		0.225	35.244	
			Total Qty			94.937	94.937	Cum
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.							
	JODIDAR NARASIMAIAH 1ST MAIN ROAD							
	ROAD	1	2.00	4.40 + 4.40 / 2		0.15	1.320	
		1	30.00	4.40 + 4.00 / 2		0.18	22.050	
		1	30.00	4.00 + 4.70 / 2		0.15	19.575	
		1	35.60	4.70 + 4.10 / 2		0.15	23.496	
	CC DRAIN							
	R/S	1	30.00	0.90		0.15	4.050	
		1	30.00	0.90		0.15	4.050	
		1	35.60	0.90		0.15	4.806	
	L/S	1	30.00	0.90		0.15	4.050	
		1	30.00	0.90		0.15	4.050	
		1	35.60	0.90		0.15	4.806	
			Total Qty			92.253	92.253	Cum
5	KSRRB M2200-6. Supplying, fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500							
SL NO	PARTICULARS	NO	LENGTH	CONSTANT	QTY			
	DRAIN R/S							
1	VERTICAL U BAR	732	1.70	0.620	771.528			
2	STRAIGHT BAR	10	95.60	0.390	372.840			
	DRAIN L/S							
1	VERTICAL U BAR	732	1.70	0.620	771.528			
2	STRAIGHT BAR	10	95.60	0.390	372.840			

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BOQ Item No	Description Of item of work	Nos	Measurements			Sub Qty	Total Qty	Unit
			Length	Breath	Depth			
	3	4	6	7	8	9	10	11
	TOTAL QTY IN KGS				2288.736			
	TOTAL QTY IN TONNES				2.289			
	TOTAL QTY IN TONNES				2.289	2.289	2.289	TONNE

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BOQ Item No	Description Of item of work	Nos	Measurements			Sub Qty	Total Qty	Unit
			Length	Breath	Depth			
	3	4	6	7	8	9	10	11
	Measurement continued on:- 23/3/20							
4	Providing and laying palin / reinforced cement concrete for side drain uslng M20 nominal mix conncrete with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.43cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, well compacted for walls and bottom including centering,shuttering, cost of materials,HOM of machinery, curing etc complete excluding cost of steel as per MORTH Specification No. 1500,1700,2200 including cost of materials, labour, HOM							
	CC DRAIN-RAFT							
	R/S	1	30.00	0.75	0.10	2.250		
		1	30.00	0.75	0.10	2.250		
		1	35.60	0.75	0.10	2.670		
	L/S	1	30.00	0.75	0.10	2.250		
		1	30.00	0.75	0.10	2.250		
		1	35.60	0.75	0.10	2.670		
	Total Qty					14.340	14.340	Cum

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BOQ Item No	Description Of item of work	Nos	Measurements			Sub Qty	Total Qty	Unit
			Length	Breath	Depth			
	3	4	6	7	8	9	10	11
	measurement continued on:- 26/3/20							
4	Providing and laying palin / reinforced cement concrete for side drain using M20 nominal mix conncrete with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.43cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, well compacted for walls and bottom including centering,shuttering, cost of materials,HOM of machinery, curing etc complete excluding cost of steel as per MORTH Specification No. 1500,1700,2200 including cost of materials, labour, HOM							
	CC DRAIN-SIDE WALLS(D=AVERAGE DEPTH)							
	R/S	2	30.00	0.15	0.60	5.400		
		2	30.00	0.15	0.60	5.400		
		2	35.60	0.15	0.60	6.408		
	L/S	2	30.00	0.15	0.60	5.400		
		2	30.00	0.15	0.60	5.400		
		2	35.60	0.15	0.60	6.408		
	Total					34.416		
	Qty carried from I NO-04 PAGE NO 4 of this E MB					14.340		
	Total Qty					48.756		
	LIMITING TENDER QTY UPTO 125%(34.2*1.25%=42.75)					42.750	42.750	Cum

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BOQ Item No	Description Of item of work	Nos	Measurements						
			Length	Breath	Depth	Sub Qty	Total Qty	Unit	
	3	4	6	7	8	9	10	11	
	Measurement continued on:- 20/4/20								
6	Supplying and fixing precast rainforced concee slab 10cm thick Including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.								
	CC DRAIN-COVERING SLAB								
	R/S	1	40.00	0.75			30.000		
	L/S	1	54.00	0.75			40.500		
			Total Qty				70.500	70.500	Sqm
7	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum)								
	JODIDAR NARASIMAIAH 1ST MAIN ROAD								
	ROAD	1	2.00	4.40 + 4.40 / 2		0.15	1.320		
		1	30.00	4.40 + 4.00 / 2		0.15	18.900		
		1	30.00	4.00 + 4.70 / 2		0.175	22.838		
		1	35.60	4.70 + 4.10 / 2		0.15	23.496		
	20/4		Total Qty				66.554	66.554	Cum

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Name of Work: : Improvements to roads & drains Jodidara Narasimaiah Layout (Gowdike hola) in Bagalagunte Ward No 14.

ROYALTY RECOVERY STATEMENT

Sl. No.	Description of item	Unit	Jelly/Size stone			Sand/Gravel		
			Qty	Const	Qty	Qty	Const	Qty
1	WMM	m^3	94.94	1.32	125.31618		-	
2	CC M-10	m3	92.253	0.89	82.11	92.25	0.465	42.90
3	CC M-20 BOX DRAIN	m3	42.750	0.69	29.50	42.75	0.43	18.38
4	CC M-30	m3	66.554	0.69	45.92	66.55	0.46	30.61
	TOTAL				**282.84**			**91.89**

	ABSTRACT				
		Unit	**Qty**	**Rate**	**Amount**
1	Jelly	Cum	**282.84**	Rs 108.00 / m^3	**30546.80**
2	Sand	Cum	**91.89**	Rs 103.00 / m^3	**9465.16**
	TOTAL				**40011.96**

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